

LISTING OF THE CLAIMS

1. (Previously Presented) A device for fashioning a closure of a puncture site in an issue comprising:

a cannula member having proximal and distal ends and a lumen;

a connecting rod disposed axially within said cannula, said connecting rod having a proximal end oriented towards said proximal end of said cannula and a distal end oriented toward said distal end of said cannula, said connecting rod having an actuating mechanism operative to selectively cause said connecting rod to advance distally or retract proximally within said cannula;

a needle/suture complex mounted upon said distal end of said connecting rod, said needle/suture complex comprising at least one pair of angled needles having a suture extending therebetween, said needle/suture complex further comprising two or more needle holder arms, said needle holder arms being angled and connected to the distal end of said connecting rod, said connecting rod operative to pivot the needle holder arms between a first operative configuration wherein said needle holder arms extend in opposed directions from the distal end of said cannula and a second operative configuration wherein said needle holder arms are biased inwardly relative to said first operative configuration;

wherein said angled needles are capable of traversing at least one tissue layer in an orientation that is generally perpendicular to the tissue layer and generally parallel to the cannula; and

a needle trap mechanism disposed within the lumen of said cannula and operative to lockingly engage said angled needles of said needle/suture complex after said needle holder arms assume the second operative configuration; and wherein said needle trap mechanism is

operative to draw said angled needles proximally into the lumen of said cannula such that the device may be withdrawn from the puncture site with the suture extending between the needles, forming a closure of said puncture site.

2. (Previously Presented) The device of claim 1, wherein said angled needles are further operative to assume one or both of the following additional configurations: a folded configuration wherein said angled needles are operative to extend through the lumen of said cannula; and a retracted configuration wherein said angled needles are biased inwardly toward the lumen of said cannula.

3. (Original) The device of claim 2 wherein the distal end of said cannula is positionable through a puncture site in a tissue.

4. (Cancelled)

5. (Previously Presented) The device of claim 1 wherein each respective one of said pair of angled needles is operative to disengage from said needle holder arms after each said needle holder arm transitions from its first operative configuration to its second operative configuration.

6. (Cancelled)

7. (Previously Presented) The device of claim 1 wherein each respective one of said pair of needle holder arms are biased to extend across said puncture site as said needle holder arms assume said first operative configuration.

8. (Original) The device of claim 1 further comprising a handle formed upon said cannula.
9. (Previously Presented) The device of claim 15 wherein said handle and said trigger are positioned relative to one another to enable the handle to be grasped and the trigger to be manipulated by a single hand of a user.
10. (Previously Presented) The device of claim 2 wherein said needle trap mechanism comprises a cylindrical sleeve axially mounted about said connecting rod within said cannula, said needle trap mechanism having a proximal end with a lever formed thereon and a distal end having a needle catch formed therein, said needle catch being operative to lockingly engage with said angled needles of said needle/suture complex after said needle holder arms assume said second operative configuration.
11. (Original) The device of claim 10 wherein said lever formed upon said needle trap mechanism is operative to cause said needle trap mechanism to extend distally and retract proximally within the said cannula.
12. (Previously Presented) The device of claim 11 wherein said needle trap mechanism, when lockingly engaged with said needle tips of said angled needles, disengages said angled needles from said needle holder arms and then captures said angled needles within said cannula when said needle trap mechanism retracts proximally within said cannula.
13. (Previously Presented) The device of claim 1 further comprising a tapered mount formed at said distal end of said connecting rod wherein said needle/suture complex is positioned upon said tapered mount, said tapered mount having a generally hourglass shape.

14. (Original) The device of claim 1 wherein said actuating mechanism is a trigger.

15. (Previously Presented) The device of claim 8 further comprising a trigger formed upon the proximal end of said connecting rod and operative to selectively cause said connecting rod to advance distally or retract proximally within said cannula.

16. (Previously Presented) A device for fashioning a closure of a puncture site in a tissue comprising:

a cannula member having proximal and distal ends and a lumen;

a connecting rod disposed axially within said cannula, said connecting rod having a proximal end oriented towards said proximal end of said cannula and a distal end oriented toward said distal end of said cannula, said connecting rod having an actuating mechanism operative to selectively cause said connecting rod to advance distally or retract proximally within said cannula;

two or more needle holder arms, said needle holder arms being angled and connected to the distal end of said connecting rod, said connecting rod operative to pivot the needle holder arms between a first operative configuration wherein said needle holder arms extend in opposed directions from the distal end of said cannula and a second operative configuration wherein said needle holder arms are biased inwardly relative to said first operative configuration into the lumen of said cannula;

wherein said angled needles are capable of traversing at least one tissue layer in an orientation that is generally perpendicular to the tissue layer and generally parallel to the cannula;

at least one pair of angled needles having a suture extending therebetween, each of said angled needles mounted upon, respectively, each of said needle holder arms; and

a needle trap mechanism disposed within the lumen of said cannula and operative to lockingly engage said angled needles of said needle/suture complex after said needle holder arms assume the second operative configuration; and wherein said needle trap mechanism is operative to disengage said angled needles from said needle holder arms and to draw said angled needles into the lumen of said cannula such that the device may be withdrawn from the puncture site with the suture extending between the angled needles, forming a closure of said puncture site.